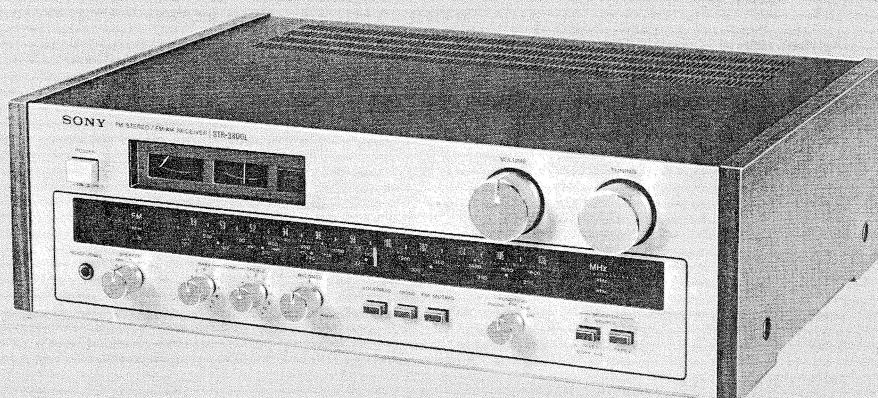


STR-3800L

AEP Model
UK Model



FM STEREO/FM-AM RECEIVER

SPECIFICATIONS

GENERAL

Power Requirements:	110, 120, 220 or 240 V ac adjustable, 50/60 Hz
Power Consumption:	300 W (UK model) 190 W (AEP model)
Dimensions:	Approx. 485 (w) x 145 (h) x 375 (d) mm 19 ¹ / ₁₆ (w) x 5 ³ / ₄ (h) x 14 ¹¹ / ₁₆ (d) inches including projecting parts and controls
Weight:	Approx. 10.5 kg, 23 lb 2 oz (net) Approx. 12.5 kg, 27 lb 9 oz (with shipping carton)

Alternate Channel Selectivity:	60 dB (400 kHz) 40 dB (300 kHz, S/N = 26 dB, 40 kHz deviation)
--------------------------------	---

IM Distortion:	0.2 % (MONO) 0.5 % (STEREO)
----------------	--------------------------------

Separation:	35 dB (100 Hz) 40 dB (1 kHz) 35 dB (10 kHz)
-------------	---

RF Intermodulation:	55 dB
---------------------	-------

Muting Threshold:	Approx. 5 μ V
-------------------	-------------------

Image Rejection:	45 dB
------------------	-------

IF Rejection:	95 dB
---------------	-------

Spurious Rejection:	75 dB
---------------------	-------

AM Suppression:	54 dB
-----------------	-------

Capture Ratio:	1.5 dB
----------------	--------

S/N Ratio:	70 dB (MONO) 68 dB (STEREO)
------------	--------------------------------

Frequency Response:	40 – 12,500 Hz $\pm$ 1 dB 30 – 15,000 Hz $\pm$ 3 dB
---------------------	--

FM SECTION

Tuning Range:	87.5 – 108 MHz
---------------	----------------

Antenna:	300 Ω balanced 75 Ω unbalanced
----------	---

Sensitivity:	at S/N 50 dB quieting 4 μ V (MONO) 45 μ V (STEREO) at S/N 46 dB quieting 4.5 μ V (MONO) (40 kHz deviation) 50 μ V (STEREO) (40 kHz deviation) Usable sensitivity 1.9 μ V, IHF 1.7 μ V, S/N = 26 dB (40 kHz deviation)
--------------	--

Harmonic Distortion:	at 100 Hz 0.2 % (MONO) 0.5 % (STEREO) at 1 kHz 0.2 % (MONO) 0.3 % (STEREO) at 10 kHz 0.2 % (MONO) 0.8 % (STEREO)
----------------------	---

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SONY®

SERVICE MANUAL

-- Continued on page 2 --

AM SECTION

Tuning Range:	MW 530 – 1,605 kHz LW 150 – 350 kHz
Antenna:	Built-in ferrite-rod antenna External antenna terminal
Selectivity:	MW 50 dB (10 kHz) LW 50 dB (10 kHz)
Sensitivity:	MW 250 μ V/m, built-in antenna LW 500 μ V/m, built-in antenna MW 100 μ V, external antenna at 1,000 kHz LW 100 μ V, external antenna at 250 kHz
Image Rejection:	MW 40 dB at 1,000 kHz LW 70 dB at 250 kHz
S/N Ratio:	MW 50 dB (50 mV/m) LW 50 dB (50 mV/m)
Harmonic Distortion:	MW 0.5 % (50 mV/m, 400 Hz) LW 0.5 % (50 mV/m, 400 Hz)

AUDIO AMPLIFIER SECTION

Continuous RMS Power Output: (rated output) (less than 0.2 % harmonic distortion)	Both channels driven simultaneously At 20 – 20,000 Hz 25 W + 25 W (8 Ω) 25 W + 25 W (4 Ω) At 1 kHz 25 W + 25 W (8 Ω) 25 W + 25 W (4 Ω) According to DIN 45500 25 W + 25 W (8 Ω) 25 W + 25 W (4 Ω)
Dynamic Power Output: (IHF constant power supply method)	90 W (8 Ω) 90 W (4 Ω)
Power Bandwidth:	10 – 30,000 Hz, IHF
Damping Factor:	25 (1 kHz, 8 Ω)

Harmonic Distortion: Less than 0.2 % at rated output
Less than 0.1 % at 1 W output

IM Distortion: Less than 0.2 % at rated output
(60 Hz : 7 kHz = 4 : 1)
Less than 0.1 % at 1 W output

Residual Noise: Less than 0.008 μ W, 8 Ω

Frequency Response:

PHONO	RIAA equalization curve ± 1 dB
TAPE 1, 2 REC/PB (input)	10 – 30,000 Hz ± 0.5 dB -3.0 dB

Input Sensitivity and Impedance:

	Sensitivity *	Impedance	S/N	Weighting network
PHONO	2.5 mV (–50 dB)	50 k Ω	70 dB	A
TAPE 1, 2 REC/PB (input)	250 mV (–10 dB)	80 k Ω	90 dB	A

Note: * Measured with rated output into 8 Ω loads
(both channels driven simultaneously) at 1 kHz.

Output Level and Impedance: (with rated input)

	Output level	Impedance
REC OUT 1, 2	250 mV (–10 dB)	4.7 k Ω
REC/PB (output)	40 mV (–26 dB)	82 k Ω

Headphone: Accepts low and high impedance headphones

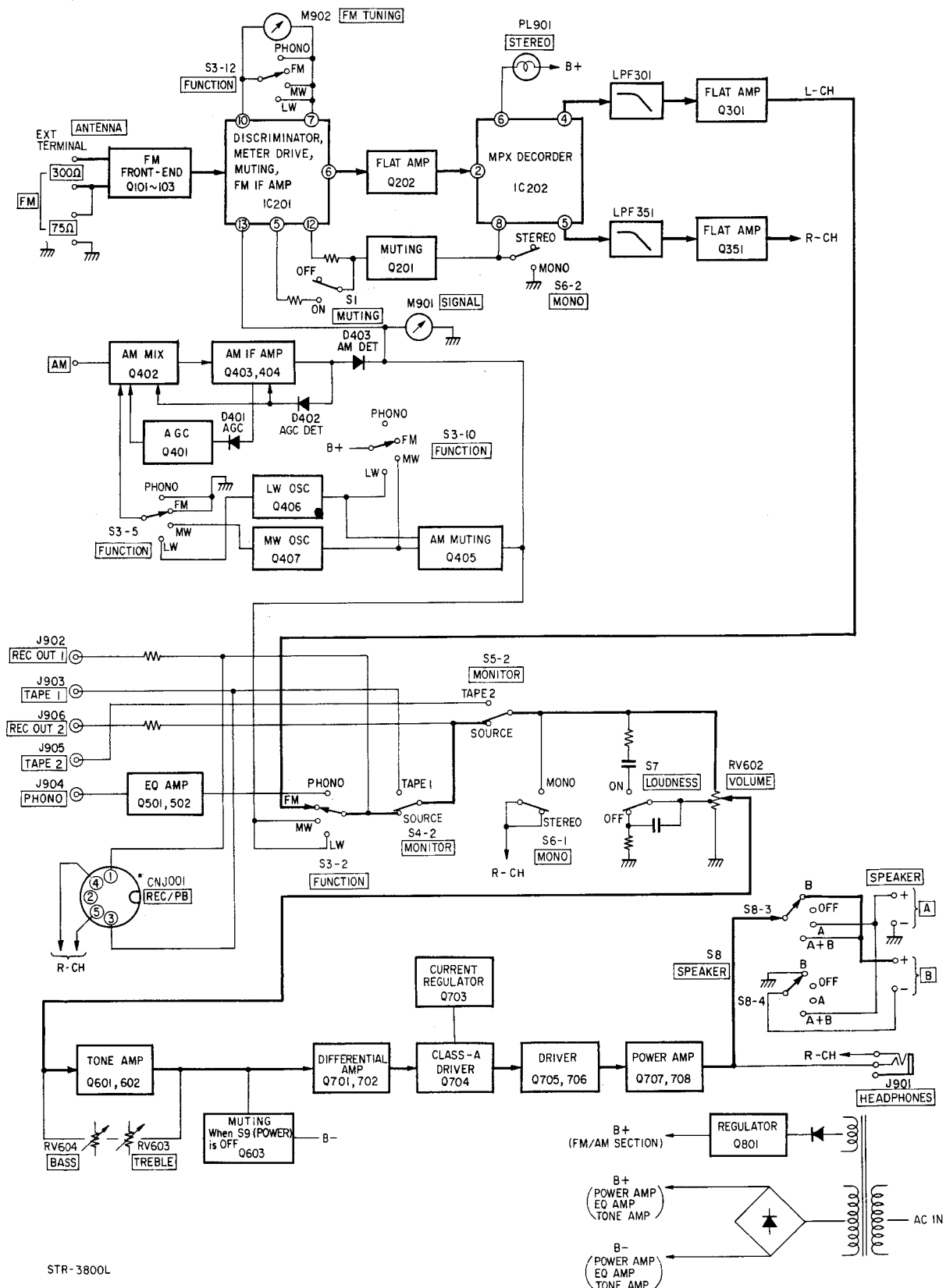
Speaker: Accepts 4 – 16 Ω speakers

Tone Controls: BASS ± 10 dB at 100 Hz
TREBLE ± 10 dB at 10 kHz

Loudness Controls: + 8 dB at 50 Hz, + 3 dB at 10 kHz
(Attenuation: 30 dB)

SECTION 1 OUTLINE

1-1. BLOCK DIAGRAM



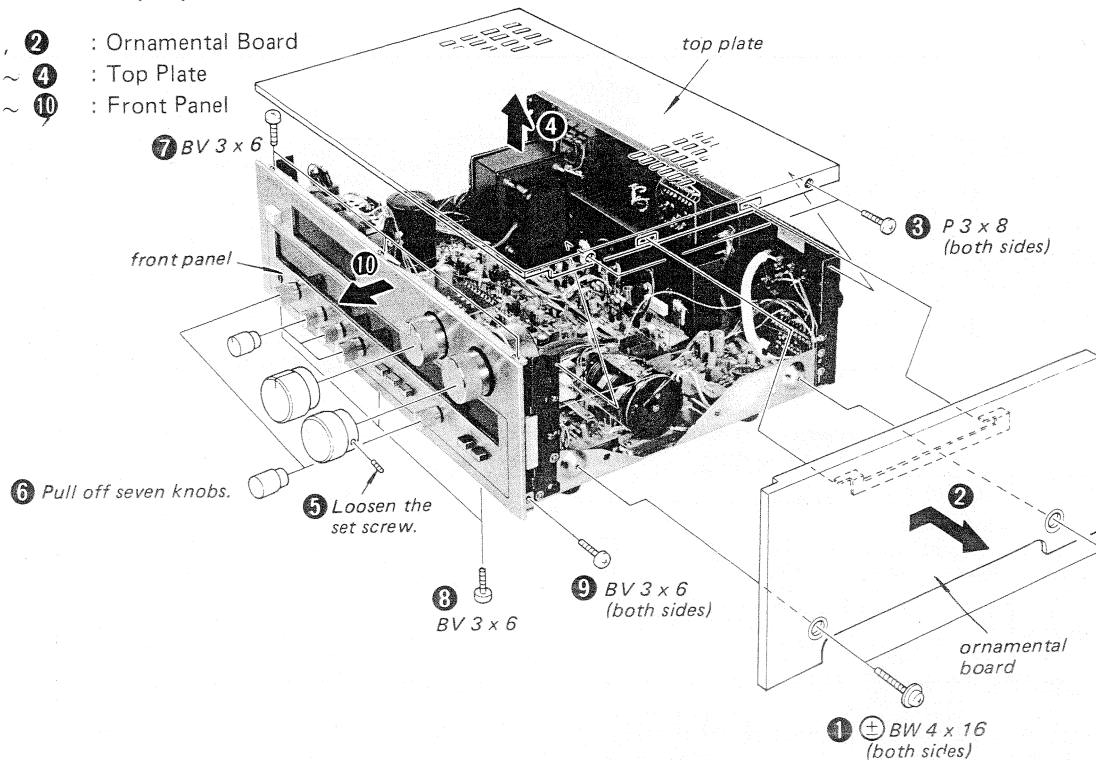
STR-3800L

SECTION 2 DISASSEMBLY

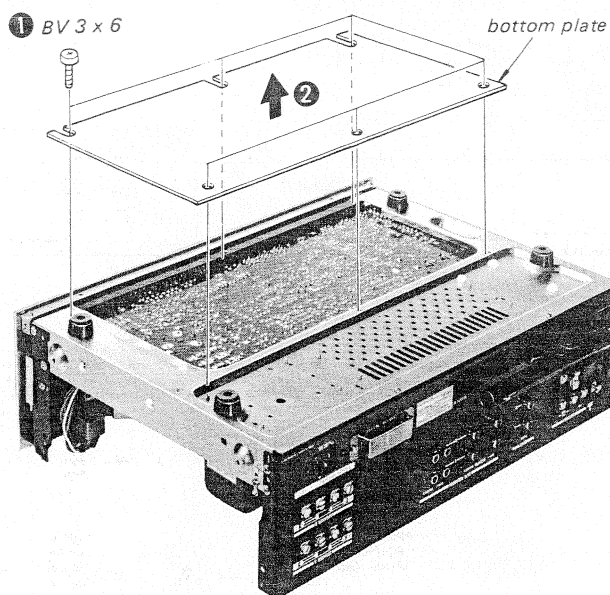
2-1. REMOVAL

Ornamental Board, Top Plate And Front Panel Removal

- ①, ② : Ornamental Board
① ~ ④ : Top Plate
① ~ ⑩ : Front Panel



Bottom Plate Removal



MAIN Circuit Board

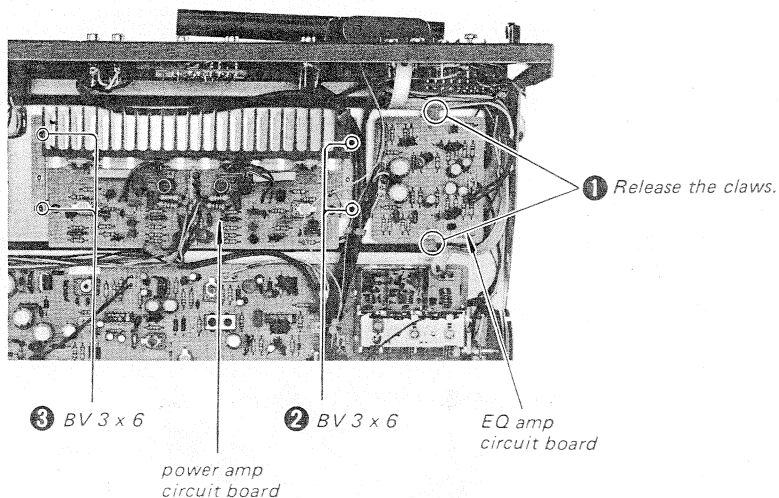
- Replacement of the components on the main circuit board.

Dial Cord Stringing

- On page 6.

Circuit Board Removal

- ① : EQ Amp Circuit Board
- ② , ③ : Power Amp Circuit Board



Front-end Replacement

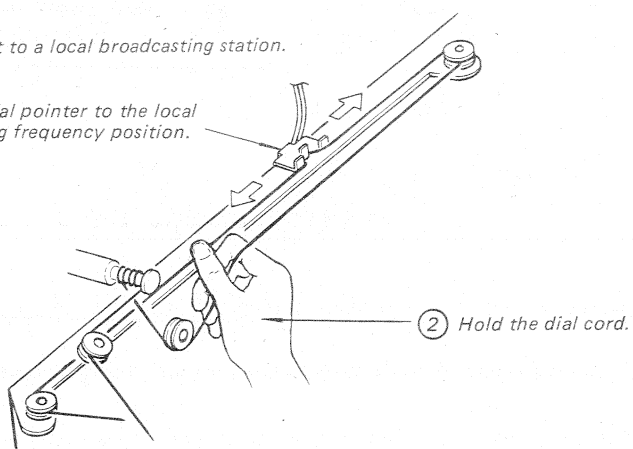
CAUTION

When the front-end needs to be repaired, replace the front-end block as a part. The parts on the front-end block are not individually available. After replacing the front-end block, perform the following procedures.

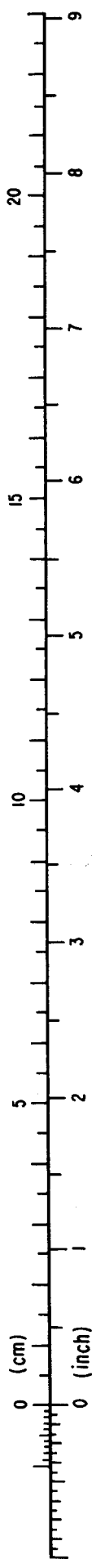
1. Dial pointer calibration.

① Tune the set to a local broadcasting station.

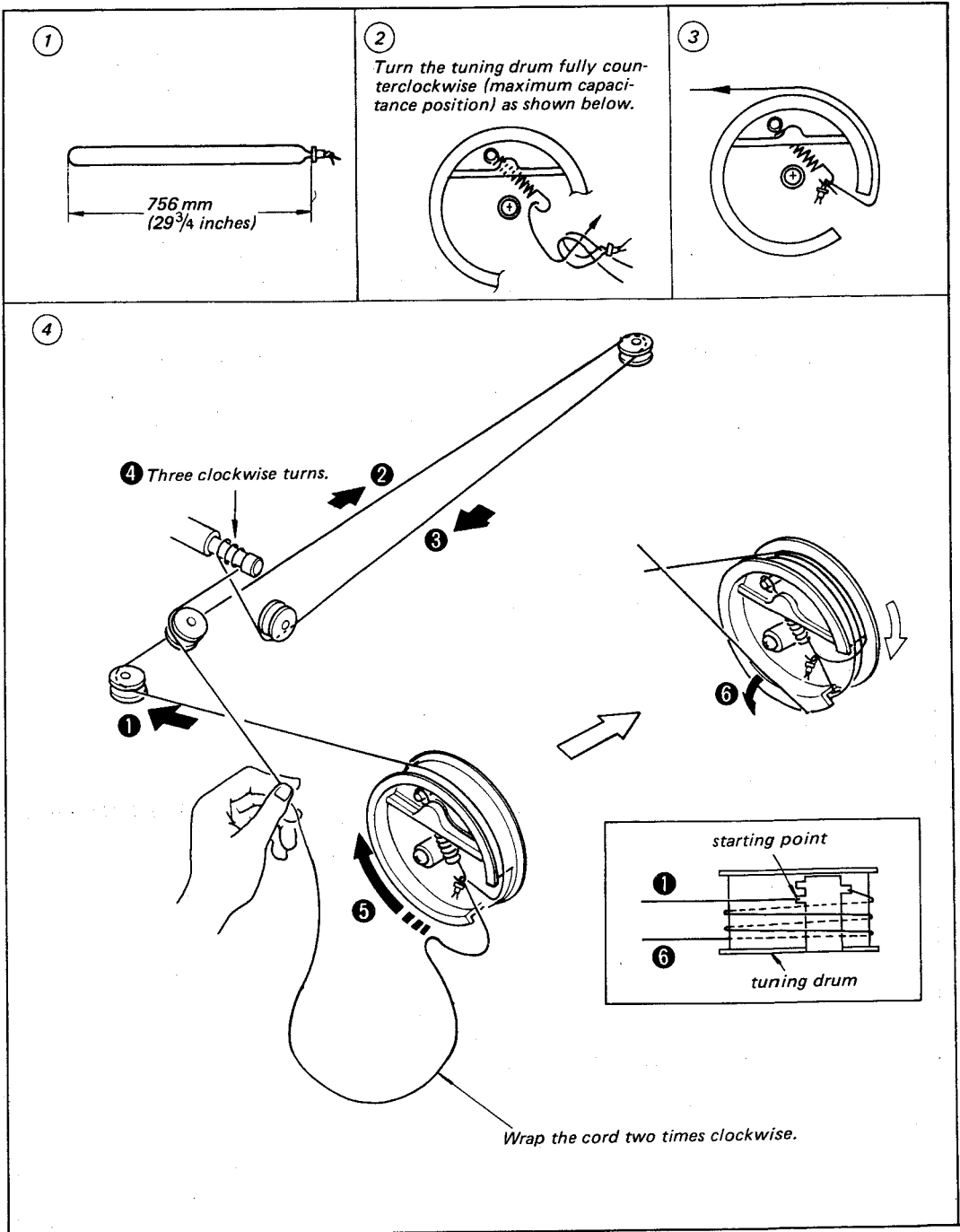
③ Move the dial pointer to the local broadcasting frequency position.



2. Perform the FM IF Alignment (1) on page 10.
3. Be sure to satisfy the specifications.
4. If necessary, perform the each adjustment.



2.2. DIAL CORD STRINGING



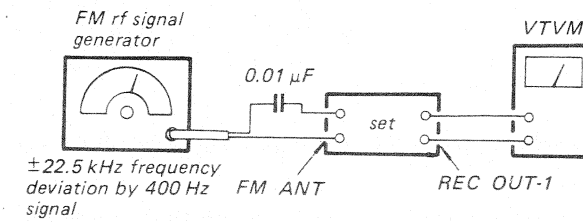
MEMO

3-1. FM SECTION

Setting:

FUNCTION selector: FM
MONO switch: MONO
MUTING switch: OFF

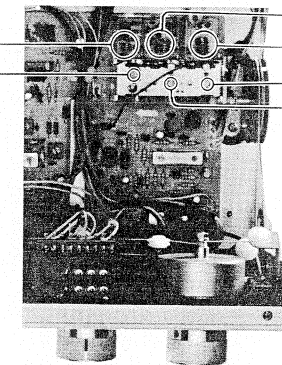
1 FM Frequency Coverage and Tracking Adjustment



Note: Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
87.5 MHz	L105
108 MHz	CT103

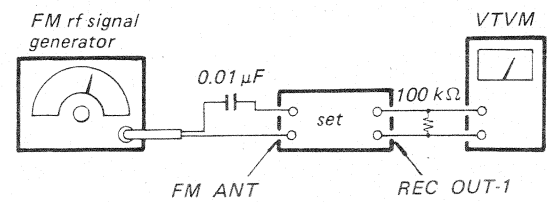
FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L103, 104	87.5 MHz
L101, 102	
CT101	108 MHz
CT102	



- Adjust in numerical order.

4 FM Output Level Adjustment

Procedure:



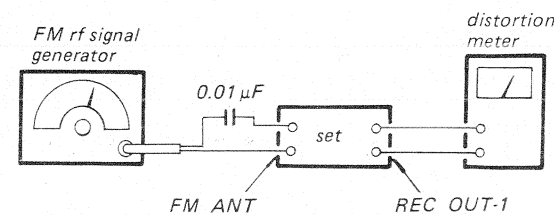
FM Signal Generator Setting:

Carrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation (100 %)
Output level: 1 mV (60 dB)

Adjust RT202 for 0.775 V (0 dB) on the VTVM.

3 FM IF Alignment (2)

Procedure:



FM Signal Generator Setting:

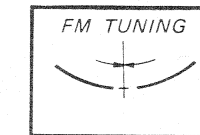
Carrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation (100 %)
Output level: 1 mV (60 dB)

Tune the set to 98 MHz and adjust the secondary-side core (black) of IFT201 for a minimum distortion reading.

2 FM IF Alignment (1)

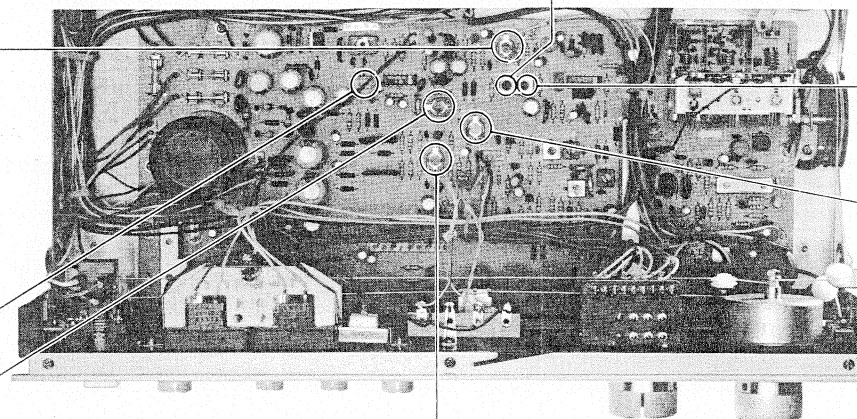
Procedure:

1. Detune the set.
2. Adjust the primary-side core (blue) of IFT201 for zero center on the FM TUNING meter as shown.



IFT201 (primary side core: blue)

IFT201 (secondary-side core: black)

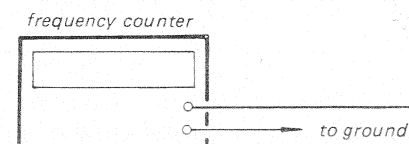


RT301

RT201

6 VCO Adjustment

Procedure:



FM Signal Generator Setting:

Carrier frequency: 98 MHz
Modulation: no modulation
Output level: 3.2 mV (70 dB)

Adjust RT203 for 19 kHz $\pm$ 100 Hz on the counter.

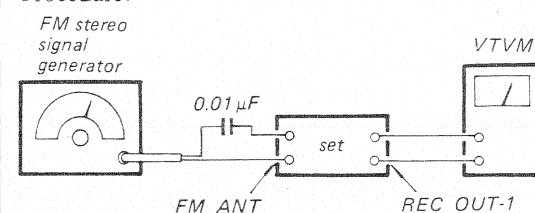
Note: Perform this adjustment after the power switch turned ON and one minute passed.

7 FM Stereo Separation Adjustment

Setting:

MONO switch: STEREO

Procedure:



FM Signal Generator Setting:

Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Mode: Stereo
Modulation:
Audio (400 Hz): 67.5 kHz deviation (90 %)
Pilot (19 kHz): 7.5 kHz deviation (10 %)

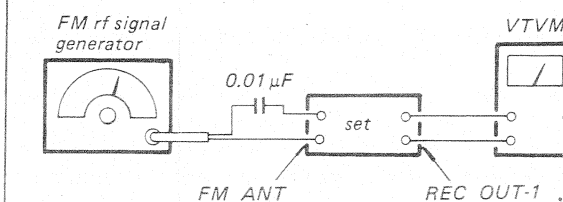
FM stereo signal generator output channel	VTVM connection	VTVM reading
L-CH	L-CH	(A)
R-CH	L-CH	(B)
R-CH	R-CH	(C)
L-CH	R-CH	(D)

Stereo separation: (A) - (B), (C) - (D).

The difference between separations (A) $\rightarrow$ (B) and (C) $\rightarrow$ (D) should be equal.

5 SIGNAL Meter Adjustment

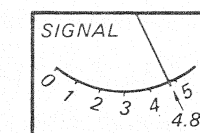
Procedure:



FM Signal Generator Setting:

Carrier frequency: 98 MHz
Modulation: no modulation
Output level: 3.2 mV (70 dB)

Tune the set to 98 MHz and adjust RT201 for specified pointer position on the SIGNAL meter as shown.

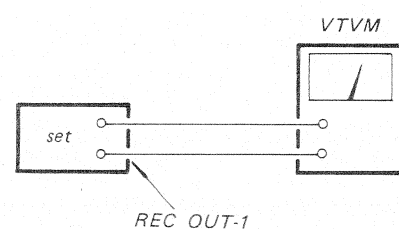
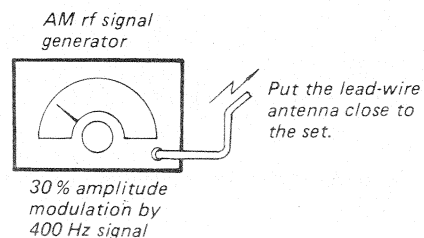


3-2. MW AND LW SECTION

① MW/LW Frequency Coverage and Tracking Adjustments

Setting:

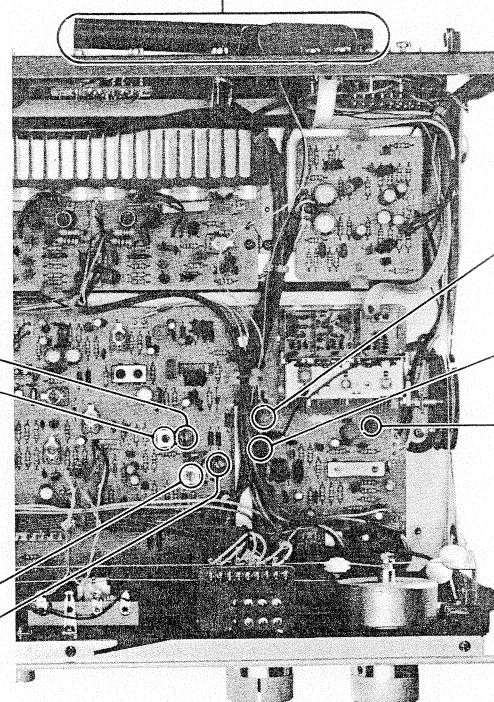
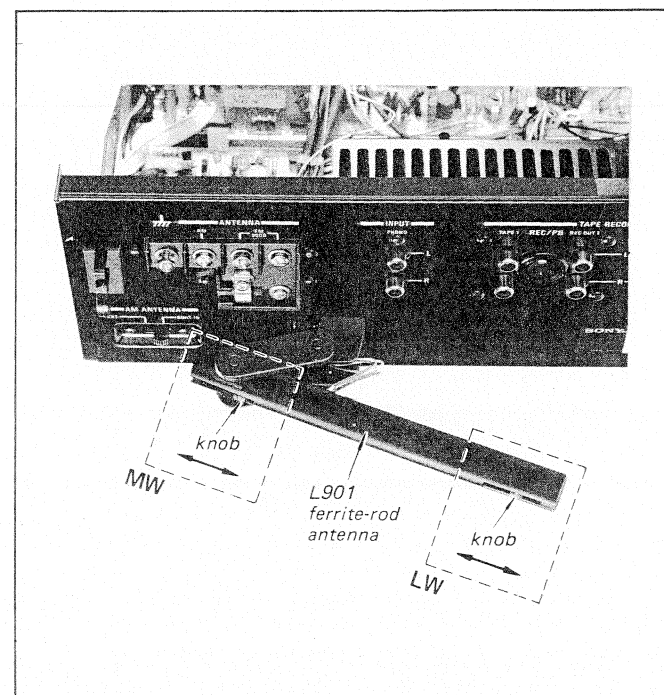
FUNCTION switch: MW or LW
AM ANTENNA switch: BUILT IN



- Note:
- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.
 - Set the AM rf signal generator output level as weak as possible.
 - IFT401 is adjusted in the factory, so no adjustment of AM IF is necessary.

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
1,680 kHz	CT403
520 kHz	L403

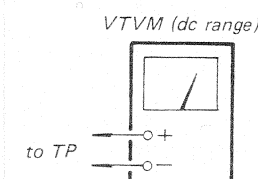
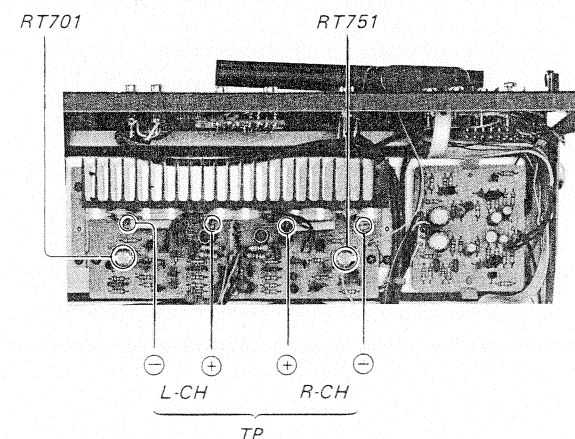
LW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
145 kHz	L404
365 kHz	CT404



3-3. POWER AMP SECTION

DC Bias Adjustment

Procedure:



With no input signal, adjust RT701 (L-CH) and RT751 (R-CH) for 50 mV VTVM reading.

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM	
L901	600 kHz
CT401	1,350 kHz

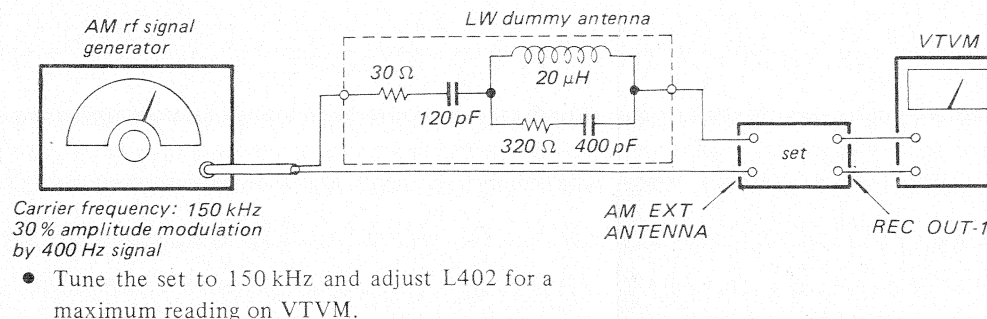
LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L901	150 kHz
CT402	300 kHz

② LW EXT Antenna Coil Adjustment

Setting:

AM ANTENNA switch: EXT

Procedure:

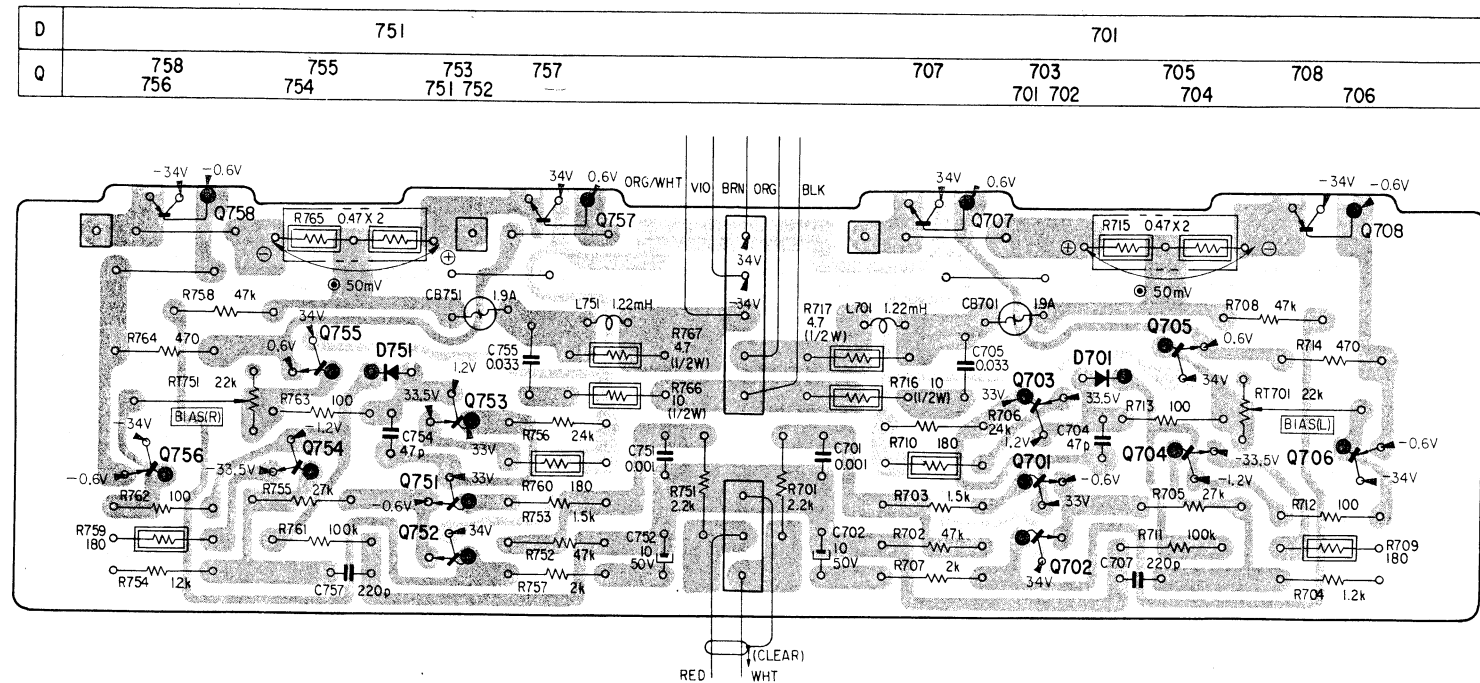


SECTION 4

DIAGRAMS

4-1. MOUNTING DIAGRAM – Power Amp Board –

– Conductor Side –



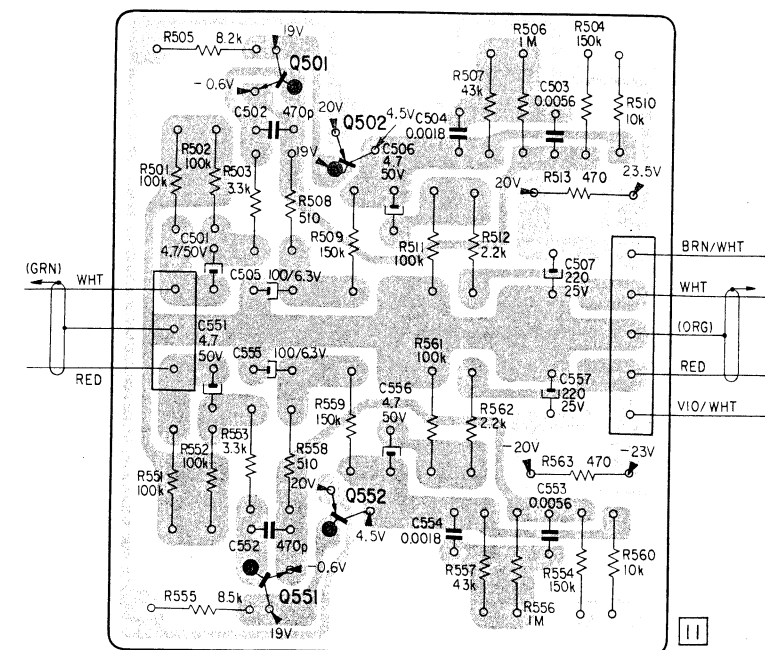
Note:

: B+ pattern

: B- pattern

4-2. MOUNTING DIAGRAM – EQ Amp Board –

– Conductor Side –

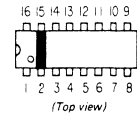


4-3. MOUNTING DIAGRAM

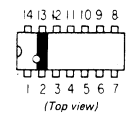
Replacement Semiconductors

For replacement, use semiconductors except in ().

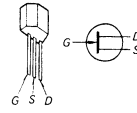
IC201: HA1137W



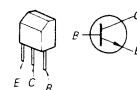
IC202: HA1156



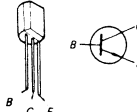
Q101: 2SK42



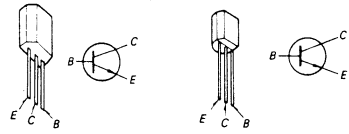
Q102: 2SC535



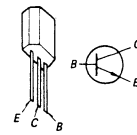
Q103, 404: 2SC710



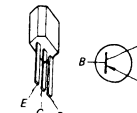
Q201, 202 } 2SC634A (2SC1364)
 Q405 }
 Q701, 702 }
 Q751, 752 }
 Q501, 551 } 2SC632A (2SC1362)
 Q602, 652 }
 Q601, 651: 2SC632A (2SC1364)



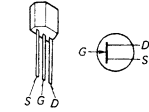
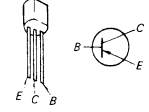
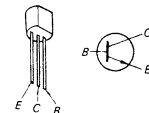
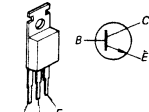
Q301, 351: 2SC634A (2SC632A)
 Q401 - 403 } 2SC403C
 Q407 }
 Q406: 2SC634A (2SC403C)



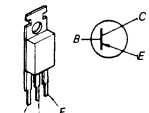
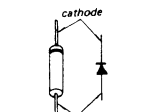
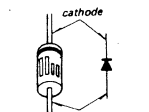
Q502, 552: 2SA705



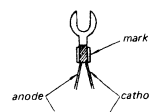
Q603, 653: 2SK23A-534 (2SK23A)

Q703, 753: 2SA896
Q706, 756: 2SA684 (2SA777)Q704, 754: 2SC1811
Q705, 755: 2SC1475 (2SC1509)Q707, 757: 2SC1061 (2SD531)
Q801: 2SC1173 (2SD531)

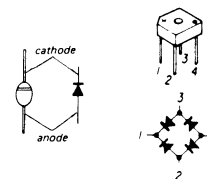
Q708, 758: 2SA671 (2SB521)

D201 - 203 } 1S1555 (1T40)
D401, 402 }
D601, 651 }
D403, 404: 1T22A
D805, 806: 10E2D602: EQB01-12 (EQA01-12)
D807: EQB01-16 (EQA01-16)

D701, 751: SV04F

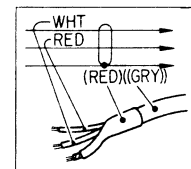


D801: U05G (S5VB)

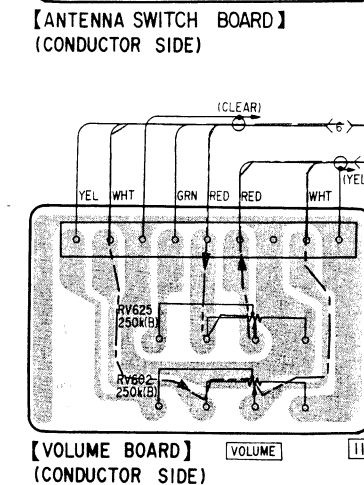
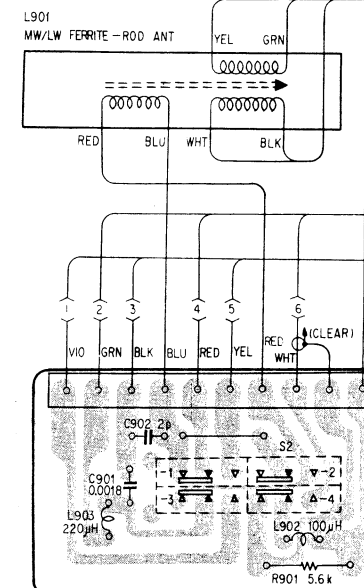
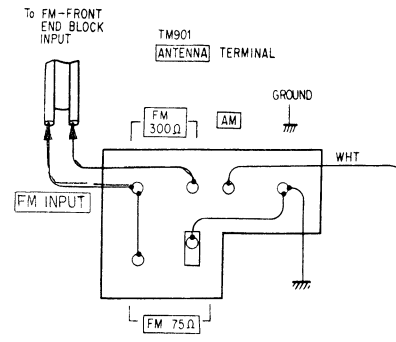


Note:

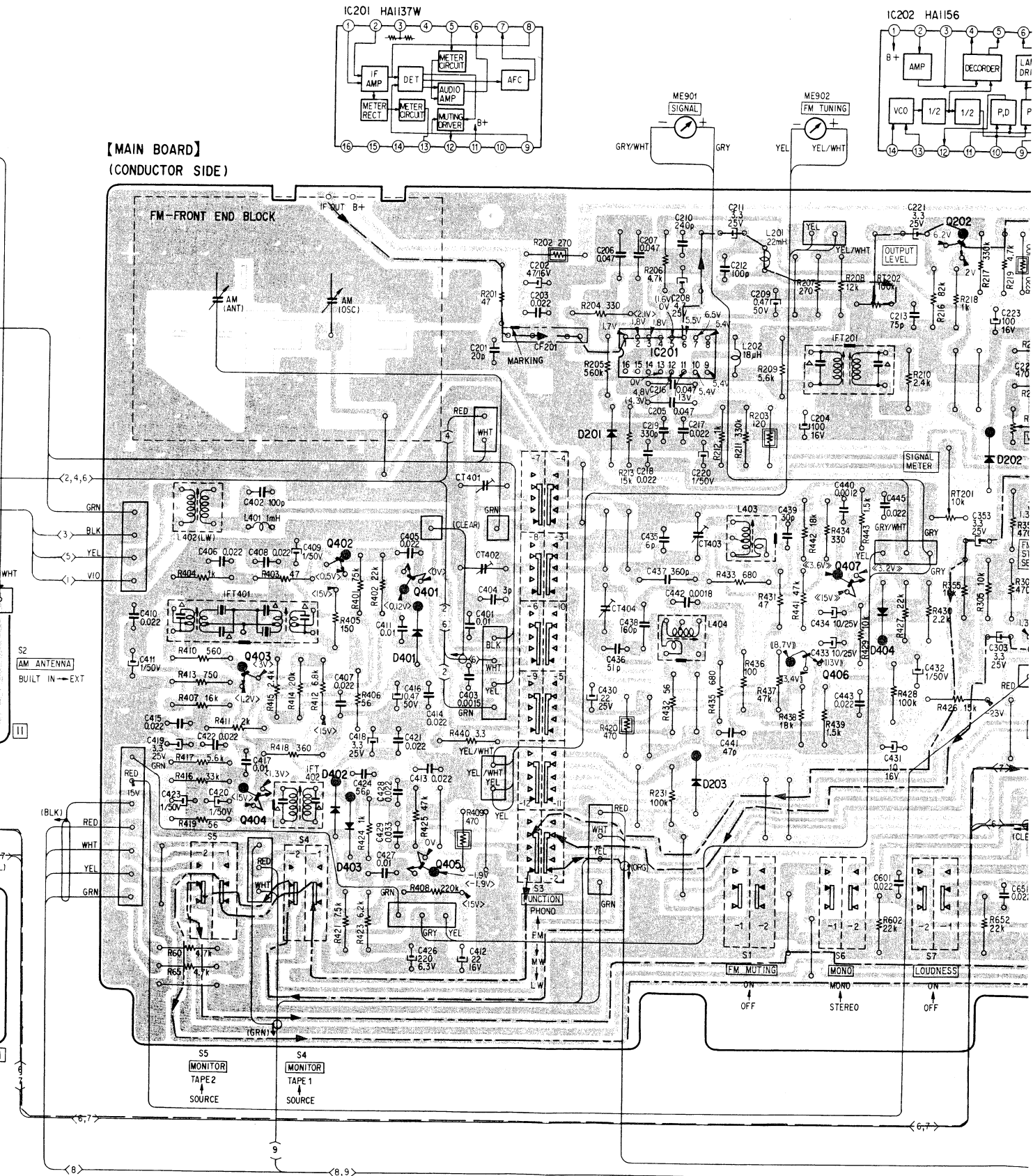
- Color code of sleeving over the end of the jacket.



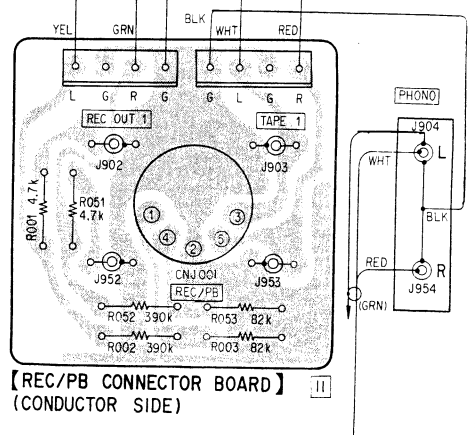
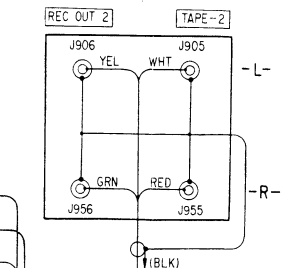
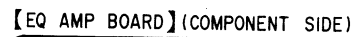
- : B+ pattern
- : B- pattern
- : signal path { --- : L-CH
--- : R-CH
- ▲ : nonflammable resistor.
- Readings are taken under detuned conditions with a VOM (20 kΩ/V).
- () : FM MUTING (S1) ... ON < > : MW
[] : FM STEREO (()) : LW
< > : AM (MW, LW)



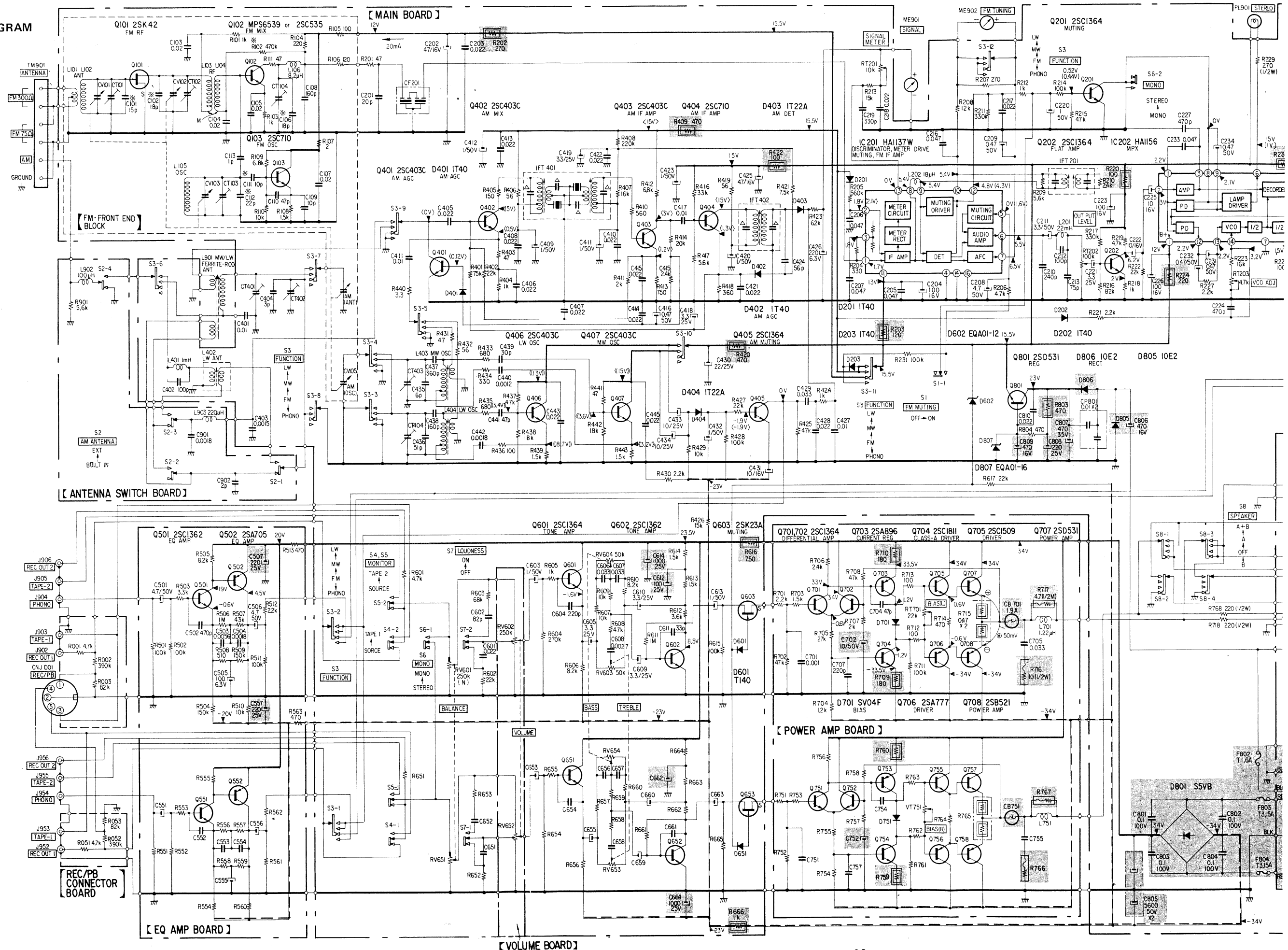
Q, IC	403, 404	402	401	405	IC201	406	407	202
D	402, 403	401	201	203	404	202		

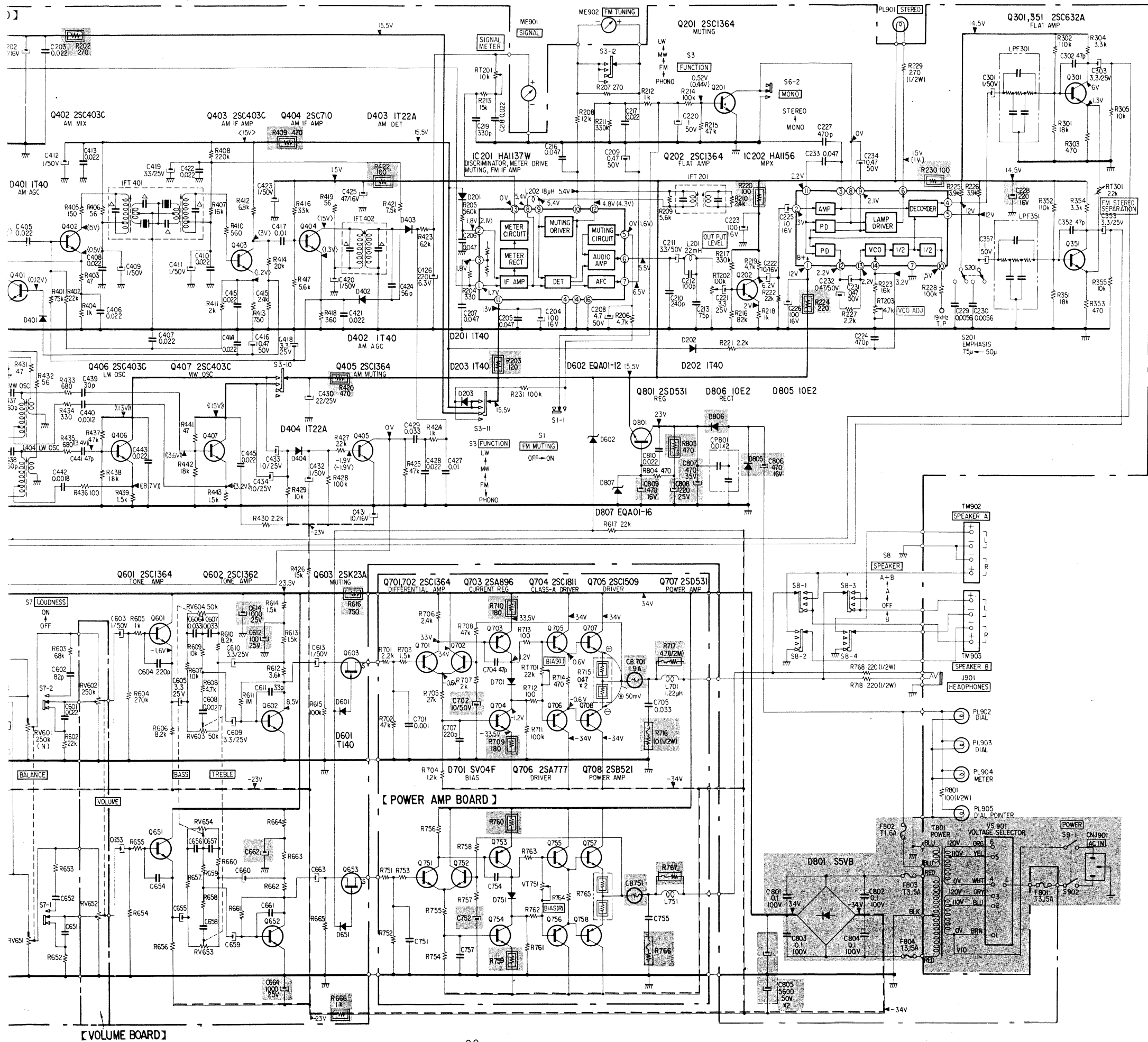
[MAIN BOARD]
(CONDUCTOR SIDE)

STR-3800L



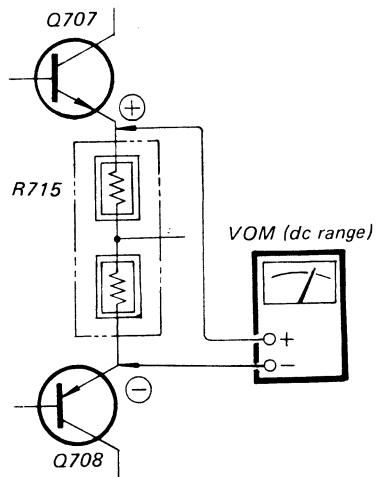
4-4. SCHEMATIC DIAGRAM





Note:

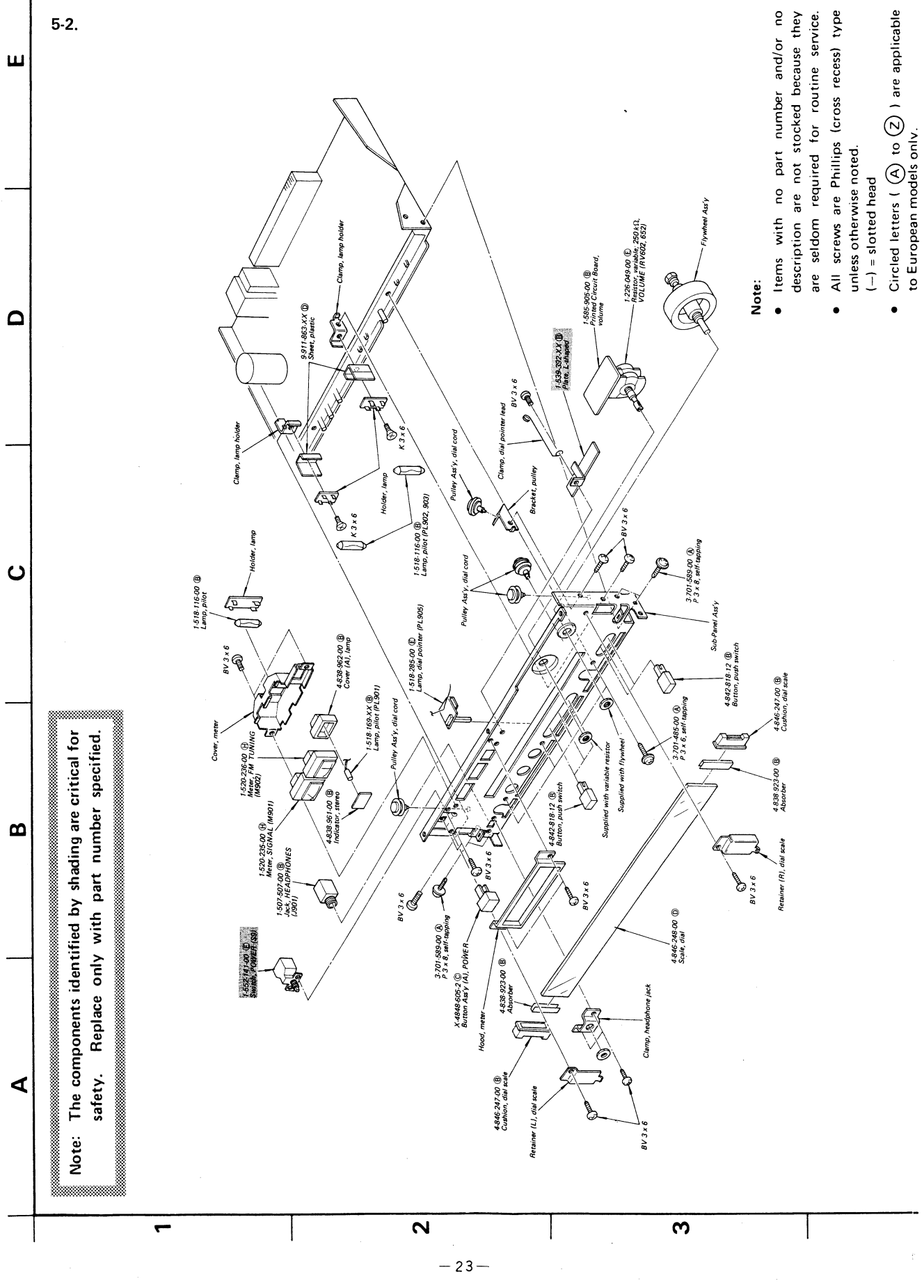
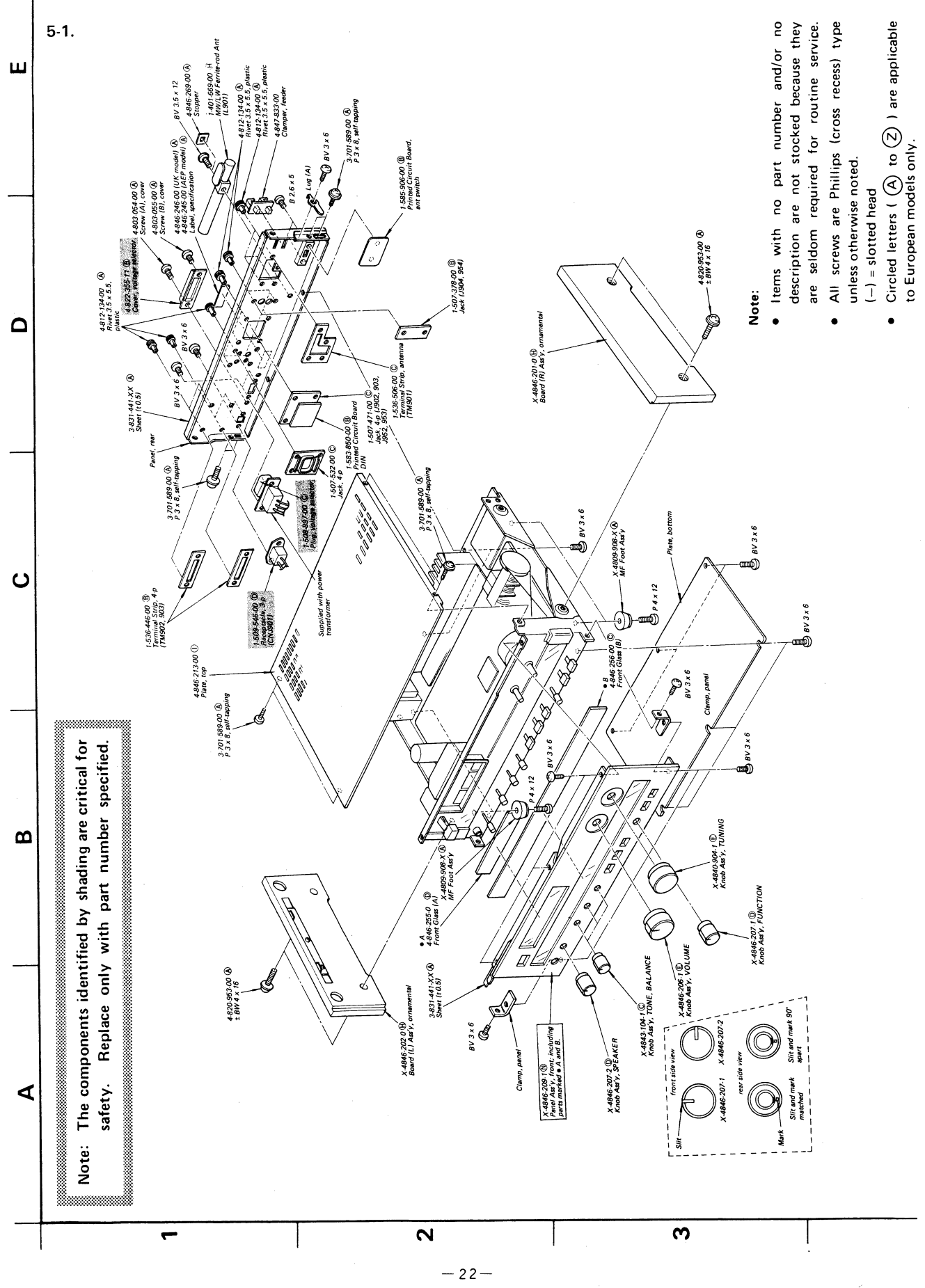
- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\text{F} / 100$. 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega = 1000\ \Omega$, $\text{M}\Omega = 1000\ \text{k}\Omega$.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- Components for right channel have the same values as for left channel.
- --- : chassis ground.
- --- : nonflammable resistor.
- --- : fusible resistor.
- --- : selected to yield optimum performance.
- Δ : internal component.
- --- : direct connection to points marked --- on the chassis.
- --- : panel designation.
- --- : adjustment for repair.
- Readings are taken under detuned conditions with a VOM (20 $\text{k}\Omega/\text{V}$).
- () : FM MUTING (S1) ... ON $\ll \gg$: MW
- [] : FM STEREO (()) : LW
- < > : AM (MW, LW)
- --- : B+ bus.
- --- : B- bus.
- $\odot$: measured as shown below.



• Switch

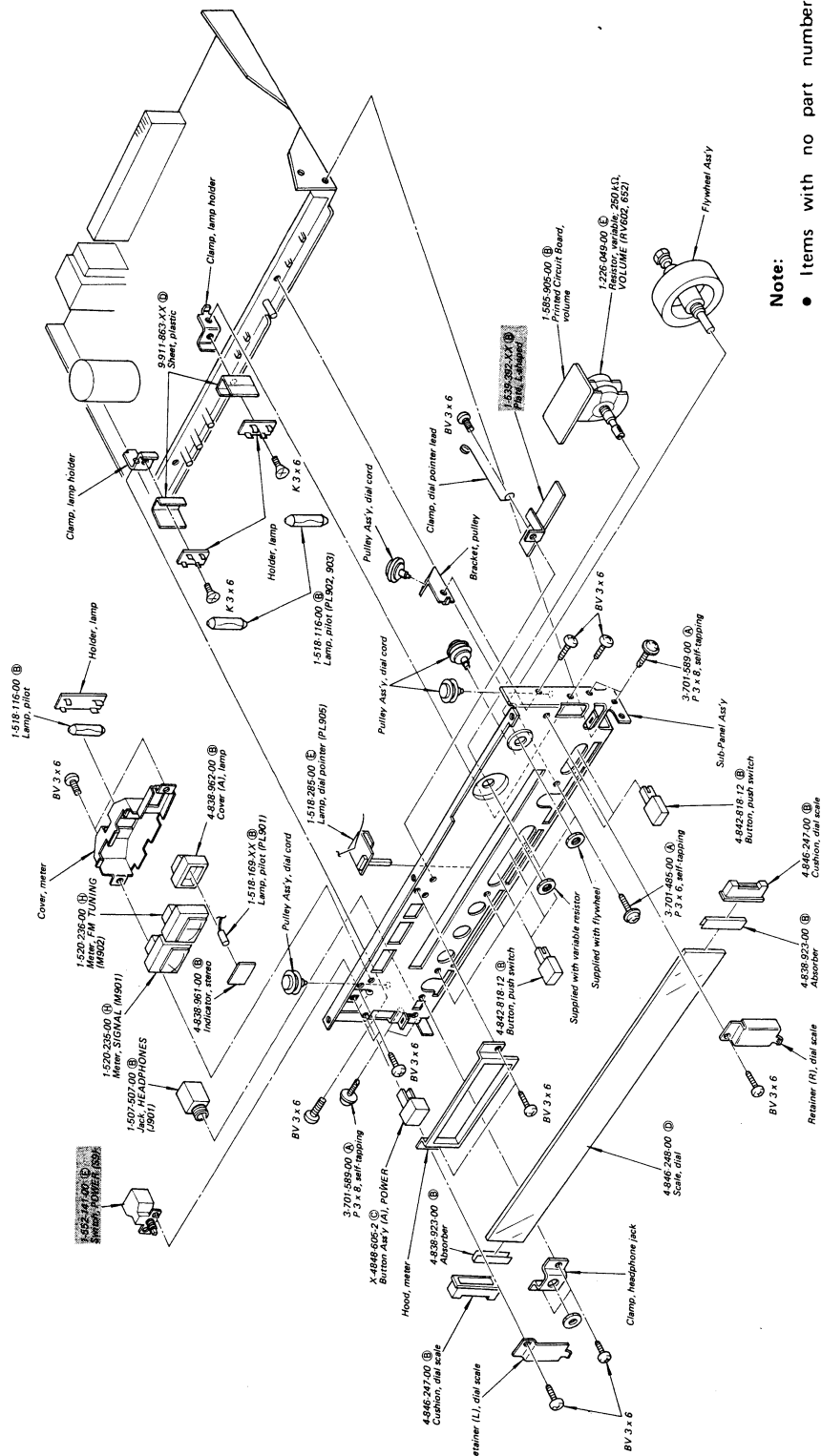
Ref. No.	Switch	Position
S1	FM MUTING	OFF
S2	AM ANTENNA	BUILT IN
S3	FUNCTION	PHONO
S4	MONITOR	SOURCE
S5	MONITOR	SOURCE
S6	MONO	STEREO
S7	LOUDNESS	OFF
S8	SPEAKER	B
S9	POWER	OFF
S201	EMPHASIS	50 μ

Note: The components identified by shading are critical for safety. Replace only with part number specified.



5-2.

Note: The components identified by shading are critical for safety. Replace only with part number specified.

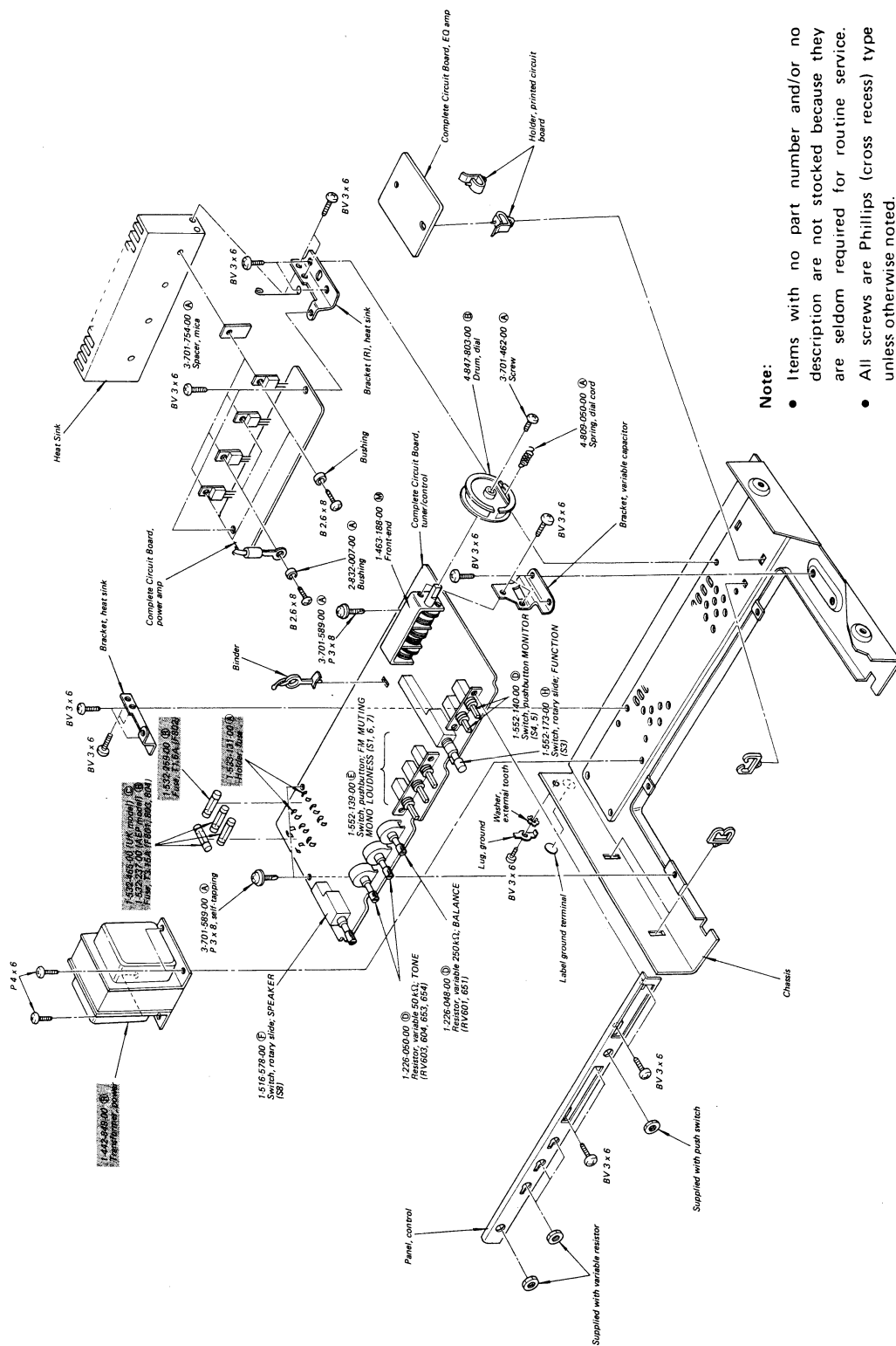


Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- Circled letters (A) to (Z) are applicable to European models only.

5-3.

Note: The components identified by shading are critical for safety. Replace only with part number specified.



Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- Circled letters (A) to (Z) are applicable to European models only.

SECTION 6
ELECTRICAL PARTS LIST

Note: Circled letters (A) to (Z) are applicable to European models only.

Note: Circled letters (A) to (Z) are applicable to European models only.

Ref. No. Part No. Description

PRINTED CIRCUIT BOARDS

1-583-850-00 (B) DIN
1-585-905-00 (B) Volume
1-585-906-00 (B) Ant Switch

SEMICONDUCTORS

Transistors

⇒ Q201, 202 (B) 2SC634A
⇒ Q301, 351 (B) 2SC634A
Q401~403 (D) 2SC403C
Q404 (B) 2SC710
⇒ Q405, 406 (B) 2SC634A
Q407 (D) 2SC403C
⇒ Q501, 551 (B) 2SC632A
Q502, 552 (B) 2SA705
⇒ Q601, 651 (B) 2SC632A
⇒ Q602, 652 (C) 2SK23A-534
⇒ Q701, 751 (B) 2SC634A
⇒ Q702, 752 (C) 2SA896
Q703, 753 (C) 2SC1811
Q704, 754 (C) 2SC1475
⇒ Q705, 754 (C) 2SC1475
⇒ Q706, 756 (C) 2SA684
⇒ Q707, 757 (D) 2SC1061
⇒ Q708, 758 (E) 2SA671
IC201 (H) HA-1137W
⇒ IC202 (J) HA-1156
Diode
⇒ D201~203 (B) 1S1555
⇒ D401, 402 (B) 1S1555
D403, 404 (B) 1T22A

⇒ : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Ref. No. Part No. Description

⇒ D601, 651 (B) 1S1555
⇒ D602 (B) EQB01-12
D701, 751 (B) SV-04F
⇒ D801 (C) U05G
D805, 806 (B) 10E-2
⇒ D807 (B) EQB01-16

COILS

L201 1-407-210-XX (B) 22μH, microinductor
L202 1-407-741-00 (A) 18μH, microinductor
L401 1-407-195-XX (B) 1mH, microinductor
L402 1-401-664-00 (B) LW ANT
L403 1-405-732-11 (B) MW OSC
L404 1-405-731-11 (B) LW OSC
L901 1-401-669-00 (H) MW/LW, ferrite-rod antenna
L902 1-407-169-XX (A) 100μH, microinductor
L903 1-407-173-XX (A) 220μH, microinductor

TRANSFORMERS

IFT201 1-404-011-00 (C) FM IFT
IFT401 1-403-963-21 (E) AM IFT, 468 kHz
IFT402 1-403-149-00 (B) AM IFT
T801 1-442-849-XX (R) Power

CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted.
50WV or less are not indicated except for electrolytics.
pF = μμF, elect = electrolyticC201 1-102-958-11 (A) 20 p
C202 1-121-409-11 (A) 47 16 V elect
C203 1-101-924-11 (A) 0.022
C204 1-121-415-11 (B) 100 16 V elect
C205~207 1-101-925-11 (A) 0.047
C208 1-121-395-11 (A) 4.7 25 V elect

Ref. No. Part No. Description

C209 1-121-726-11 (A) 0.47 50 V elect
C210 1-102-979-11 (A) 240 p
C211 1-121-392-11 (A) 3.3 25 V elect
C212 1-102-973-11 (A) 100 p
C213 1-101-890-11 (A) 75 p
C216 1-101-925-11 (A) 0.047
C217, 218 1-101-924-11 (A) 0.022
C219 1-102-820-11 (A) 330 p
C220 1-121-391-11 (A) 1 50 V elect
C221 1-121-392-11 (A) 3.3 25 V elect
C222 1-121-916-11 (B) 10 16 V elect
C223 1-121-415-11 (B) 100 16 V elect
C224 1-103-717-11 (A) 470 p polystyrol
C225 1-121-916-11 (B) 10 16 V elect
C226 1-121-415-11 (B) 100 16 V elect
C227 1-102-824-11 (A) 470 p
C228 1-123-068-11 (B) 220 16 V elect
C229, 230 1-108-834-11 (A) 0.0056
C231 1-121-726-11 (A) 0.47 50 V elect
C233 1-108-845-12 (A) 0.047 mylar
C234 1-121-726-11 (A) 0.47 50 V elect
C301, 351 1-121-912-11 (A) 1 50 V elect
C302, 352 1-101-880-11 (A) 47 p
C303, 353 1-121-913-11 (A) 3.3 25 V elect
C401 1-102-129-11 (A) 0.01
C402 1-102-973-11 (A) 100 p
C403 1-108-827-12 (A) 0.0015 mylar
C404 1-102-936-11 (A) 3 p
C405~408 1-101-924-11 (A) 0.022
C409 1-121-391-11 (A) 1 50 V elect
C410 1-101-924-11 (A) 0.022
C411 1-121-391-11 (A) 1 50 V elect
C412 1-121-479-11 (A) 22 16 V elect
C413~415 1-101-924-11 (A) 0.022
C416 1-121-726-11 (A) 0.47 50 V elect
C417 1-102-129-11 (A) 0.01

Ref. No. Part No. Description

C418, 419 1-121-392-11 (A) 3.3 25 V elect
C420 1-121-391-11 (A) 1 50 V elect
C421, 422 1-101-924-11 (A) 0.022
C423 1-121-391-11 (A) 1 50 V elect
C424 1-101-884-11 (A) 56 p
C425 1-121-409-11 (A) 47 16 V elect
C426 1-121-419-11 (B) 220 6.3 V elect
C427 1-108-239-12 (A) 0.01 mylar
C428 1-108-242-12 (A) 0.022 mylar
C429 1-108-244-12 (A) 0.033 mylar
C430 1-121-480-11 (A) 22 25 V elect
C431 1-121-651-11 (A) 10 16 V elect
C432 1-121-391-11 (A) 1 50 V elect
C433, 434 1-121-398-11 (A) 10 25 V elect
C435 1-102-943-11 (A) 6 p
C436 1-101-882-11 (A) 51 p
C437 1-103-714-11 (A) 360 p polystyrol
C438 1-103-706-11 (B) 160 p polystyrol
C439 1-102-962-11 (A) 30 p
C440 1-108-826-12 (A) 0.0012 mylar
C441 1-101-880-11 (A) 47 p
C442 1-108-352-12 (A) 0.0018 mylar
C443 1-101-924-11 (A) 0.022
C444 1-102-129-11 (A) 0.01
C445 1-101-924-11 (A) 0.022
C501, 551 1-121-750-11 (A) 4.7 50 V elect
C502, 552 1-102-824-11 (A) 470 p
C503, 553 1-108-801-11 (A) 0.0056
C504, 554 1-108-795-12 (A) 0.0018 mylar
C505, 555 1-121-413-11 (A) 100 6.3 V elect
C506, 556 1-121-750-11 (A) 4.7 50 V elect
C507, 557 1-121-936-11 (B) 220 25 V elect
C601, 651 1-108-242-12 (A) 0.022 mylar
C602, 652 1-102-971-11 (A) 82 p
C603, 653 1-121-912-11 (A) 1 50 V elect
C604, 654 1-102-978-11 (A) 220 p
C605, 655 1-121-913-11 (A) 3.3 25 V elect

Note: The components identified by shading are critical for safety. Replace only with part number specified.

Note: The components identified by shading are critical for safety. Replace only with part number specified.

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No.	Part No.	Description
C606, 656 C607, 657	1-108-244-12 (A) 0.033	mylar
C608, 658 C609, 659	1-108-353-12 (A) 0.0027	mylar
C610, 660	1-121-913-11 (A) 3.3 25 V	elect
C611, 661	1-102-963-11 (A) 33 p	
C612, 662	1-121-935-11 (B) 100 25 V	elect
C613, 663	1-121-391-11 (A) 1 50 V	elect
C614, 664	1-123-066-11 (B) 1000 25 V	elect
C701, 751	1-108-227-12 (A) 0.001	mylar
C702, 752	1-123-183-11 (A) 10 50 V	elect
C704, 754	1-101-880-11 (A) 47 p	
C705, 755	1-108-244-12 (A) 0.033	mylar
C707, 757	1-102-978-11 (A) 220 p	

C801 ~ 804	1-108-389-12 (B) 0.1	mylar
C805	1-123-248-11 (K) 5600 + 5600 50 V	elect
C806	1-121-939-11 (B) 470 16 V	elect
C807	1-121-941-11 (B) 470 35 V	elect
C808	1-121-936-11 (B) 220 25 V	elect

C809	1-121-939-11 (B) 470 16 V	elect
C810	1-101-924-11 (A) 0.022	

C901	1-108-828-12 (A) 0.0018	mylar
C902	1-102-935-11 (A) 2 p	

CT401, 402	1-141-138-XX (B) Trimmer
CT403, 404	1-141-147-XX (B) Trimmer

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted. Check schematic diagram for values.

R202	1-211-532-11 (A) 270 ¼W	nonflammable
R203	1-211-524-11 (A) 120 ¼W	nonflammable
R220	1-211-522-11 (A) 100 ¼W	nonflammable
R224	1-211-530-11 (A) 220 ¼W	nonflammable
R229	1-244-859-11 (A) 270 ½W	
R230	1-211-522-11 (A) 100 ¼W	nonflammable
R409, 420	1-211-538-11 (A) 470 ¼W	nonflammable

R422	1-211-522-11 (A) 100 ¼W	nonflammable
R616	1-211-543-11 (A) 750 ¼W	nonflammable
R666	1-211-935-11 (A) 1 k ¼W	nonflammable
R709, 759 R710, 760	1-211-528-11 (A) 180 ¼W	nonflammable
R715, 765	1-217-359-11 (B) 0.47 x 2 2 W	metal oxide
R716, 766	1-212-958-11 (A) 10 ½W	fusible
R717, 767	1-212-950-11 (A) 4.7 ½W	fusible
R718, 768	1-244-857-11 (A) 220 ½W	

R801	1-244-849-11 (A) 100 ½W	
R803	1-211-538-11 (A) 470 ¼W	nonflammable

RT201	1-224-645-XX (B) 10 k, adjustable
RT202	1-224-648-XX (B) 100 k, adjustable
RT203	1-224-644-XX (B) 4.7 k, adjustable

RT301	1-224-645-XX (B) 22 k, adjustable
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RT701, 751	1-224-646-XX (B) 22 k, adjustable
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RV601, 651	1-226-048-00 (D) 250k/250k, variable; BALANCE
RV602, 652	1-226-049-00 (E) 250k/250k, variable; VOLUME
RV603, 653 RV604, 654	1-226-050-00 (D) 50 k/50 k, variable; TREBLE, BASS

SWITCHES

S1	1-552-139-00 (E) Push, FM MUTING
S2	1-516-783-XX (C) Slide, AM ANTENNA
S3	1-552-173-00 (H) Rotary Slide, FUNCTION
S4, 5	1-552-140-00 (D) Push, MONITOR
S6, 7	1-552-139-00 (E) Push, MONO, LOUDNESS

S8	1-516-578-00 (F) Rotary Slide, SPEAKER
S9	1-552-141-00 (E) Push, POWER

S201	1-552-130-00 (B) EMPHASIS
------	---------------------------

JACKS

J901	1-507-507-00 (B) HEADPHONES
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Note: The components identified by shading are critical for safety. Replace only with part number specified.

Note: Circled letters (A to Z) are applicable to European models only.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
J902, 952 J903, 953	1-507-471-00	Ⓒ TAPE-1, REC OUT 1
J904, 954	1-507-378-XX	Ⓑ PHONO
J905, 955 J906, 956	1-507-532-00	Ⓒ TAPE-2, REC OUT 2

CNJ001	1-509-549-00 (B) REC/PB
CNJ901	1-509-546-00 (D) Receptacle, AC IN

FUSES

F801	1-532-237-00 (B) Fuse, T3.15A (AEP Model)
	1-532-465-00 (C) Fuse, T3.15A (UK Model)
F802	1-532-259-00 (B) Fuse, T1.6A
F803, 804	1-532-237-00 (B) Fuse, T3.15A (AEP Model)
	1-532-465-00 (C) Fuse, T3.15A (UK Model)

MISCELLANEOUS

CB701, 751	1-532-380-61 (E) Breaker, 1.9 A
CF201	1-527-278-XX (F) Filter, ceramic
CP801	1-102-394-11 (A) Encapsulated Component
LPF301, 351	1-231-224-00 (B) Encapsulated Component
ME901	1-520-235-00 (H) Meter, SIGNAL
ME902	1-520-236-00 (H) Meter, FM TUNING

PL901	1-518-169-XX (B) Lamp, pilot
PL902 ~ 904	1-518-116-00 (B) Lamp, pilot
PL905	1-518-285-00 (E) Lamp, dial pointer
TM901	1-536-506-00 (C) Terminal Strip, ANTENNA
TM902, 903	1-536-446-XX (B) Terminal Strip, 4-P, SPEAKER A, B

1-463-188-00 (M) Front-end
1-508-897-00 (C) Plug, voltage selector
1-539-392-XX (B) Plate, L-shaped
1-533-131-00 (A) Holder, fuse

ACCESSORIES & PACKING MATERIALS

Part No.	Description
X-4490-002-2	(B) Silicon Cloth Ass'y
1-501-161-00	(F) Feeder, antenna
1-534-819-00	(G) Cord, 3-P power (UK Model)
3-701-630-00	(A) Bag, plastic, accessories
3-770-222-11	(E) Manual Instruction
4-828-909-00	(B) Bag, plastic
4-846-217-00	(C) Cushion
4-846-257-00	(H) Carton

Note: The components identified by shading are critical for safety. Replace only with part number specified.

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